

What is claimed is:

1. An apparatus for charging a battery of a portable electronic device connected to a computer by USB by transferring power from the computer through the USB, the apparatus comprising:

5 a control portion to generate charge control signals corresponding to a battery selected according to a battery selection signal that is externally input; and  
a charging portion to charge the selected battery according to the charge control signals from the control portion.

10 2. The apparatus of claim 1, wherein the charge control signals of the control portion comprise a charge start signal to enable output of the charging portion.

15 3. The apparatus of claim 1, wherein the charge control signals of the control portion comprise a battery type signal to control an output voltage level according to the battery selection signal.

20 4. The apparatus of claim 1, wherein the charge control signals of the control portion comprise a charge voltage control signal and a charge current control signal, which are generated based on the detection of a charge current and a charge voltage from the charging portion, to control the charge current and the charge voltage.

25 5. The apparatus of claim 1, wherein the control portion is a main controller of the portable electronic device.

30 6. The apparatus of claim 1, wherein the battery selection signal is input by a user.

7. The apparatus of claim 1, wherein the battery selection signal is input by a battery recognition apparatus.

35 8. A digital camera connected to a computer by USB to charge a battery by receiving power from the computer through USB, the digital camera comprising:  
a USB charger including a USB controller to transmit and receive data through a USB port of the computer, a control portion to generate charge control

signals corresponding to a battery selected according to a battery selection signal that is externally input, and a charging portion to charge the selected battery according to the charge control signals from the control portion;

5           a charging portion to charge at least one among the various types of batteries;  
              a control portion to control a charging operation of the charging portion;  
              a main controller to transmit and receive data with the USB controller; and  
              a power converting portion to receive power from the battery that is charged by the charger and generate and output power having a plurality of voltage levels.

10           9.       The digital camera of claim 8, wherein the charge control signals of the control portion comprise a charge start signal to enable output of the charging portion.

15           10.      The digital camera of claim 8, wherein the charge control signals of the control portion comprise a battery type signal to control an output voltage level according to the battery selection signal.

20           11.      The digital camera of claim 8, wherein the charge control signals of the control portion comprise a charge voltage control signal and a charge current control signal which are generated by receiving a charge current and a charge voltage from the charging portion to control the charge current and the charge voltage.